

P a t e n t   C l a i m s

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1            1. A method of producing high porous metallic molded  
2 bodies with the following process steps:

3            a metal powder used as the starting material is mixed  
4 with a place holder,

5            from the mixture a green body is pressed,  
6            the green body is subjected to a conventional mechanical  
7 machining,

8            the place holder material is removed thermally from the  
9 green body in air or under vacuum or under a protective gas,

10           the green body is sintered to the molded body.

1            2. The method according to preceding claim 1 in which  
2 carbamide, biuret, melamine, melamine resin, ammonium carbonate or  
3 ammoniumbi carbonate is used as the place holder.

1            3. The method according to one of the preceding claims 1  
2 to 2, in which the place holder is removed at a temperature below  
3 300°C, especially below 105°C and especially advantageously below  
4 70°C.

1           4. The method according to one of the preceding claims 1  
2 to 3, in which stainless steel 1.4404 (316L) or titanium is used as  
3 the metallic starting powder.

1           5. The method according to one of the preceding claims 1  
2 to 4, in which the molded body is produced by sawing, boring,  
3 turning, milling or grinding in the green state to close to its  
4 final contour.

1           6. The method according to one of the preceding claims 1  
2 to 5, in which the sintering is carried out in a bed of ceramic  
3 balls.

1           7. The method according to one of the preceding claims 1  
2 to 6, in which the molded body following sintering is trovalized or  
3 ground smooth.